BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of the work: **Modified Estimate for Improvements and Asphalting to roads at Virupakshapura and Surrounding Areas in ward No 09 in Vidyaranyapura sub Division.**

							Estimate Cost:		2869597.00
Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
1	KSRRB 300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications MORTH chapter 3. **Page No. 138 / Item No. 19.1/ PWD SR 2014-15**	Cum							
	Drain Desilting								
	3rd Main		2	144.00	0.45	0.45	58.32		
			1	37.00	0.45	0.45	7.49		
	Cross Road		2	115.00	0.45	0.45	46.58		
	Maramma Temple Road		2	95.00	0.45	0.45	38.48		
	BS Slab Drain		1	43.00	0.60	0.60	15.48		
	For Pot Holes		1	18.40	6.00	0.20	22.08		
			1	2.00	1.80	0.20	0.72		
			1	4.60	1.00	0.20	0.92		
			1	5.30	2.40	0.20	2.54		
			1	11.60	4.60	0.20	10.67		
							203.28	75.00	**15246.00**
2	Removing B.S Slab of Drain and stacking **Page No. 25 / Item No. 5.32 / PWD SR 2014-15**	Sqm							
	3rd Main		2	90.00		1.35	243.00		
			1	35.00		1.35	47.25		
	Cross Road		2	45.00		1.35	121.50		
	Maramma Temple Road		2	50.00		1.35	135.00		
			1	35.00		1.35	47.25	**TP**	
							594.00	58.00	**34452.00**
3	Refixing stone slabs of drains and pointing in C.M (1:3) **Page No. 25 / Item No. 5.33 / PWD SR 2014-15**	Sqm						**TP**	
			Qty Vide Item No. 2				**594.00**	75.00	**44550.00**
4	KSRB 4-1.3 : Providing and laying in position plain cement concrete of **mix 1:4:8 with OPC cement @ 180 kgs with 40mm** and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregares @ 0.57 cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2. **No. 12/ Item No. 4.3/ PWD SR 2014-15**	Cum							
	3rd Main		2x2	144.00	0.20	0.10	11.52		

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
			1x2	37.00	0.20	0.10	1.48		
	Cross Road		2x2	115.00	0.20	0.10	9.20		
	Maramma Temple Road		2x2	95.00	0.20	0.10	7.60		
			1x2	43.00	0.20	0.10	1.72	**TP**	
							29.80	4000.00	**119200.00**
5	KSRB 5-14 : Providing and constructing precast concrete solid blocks with compressive strength not les than 35 Kg/sqm with cement mortar 1:4 masonry (quoin, Jamb, closer blocks) with solid concrete blocks of size 40x20x20 cms conforming to I.S: 2185/1965 in superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications. **Page No. 25 / Item No. 5.27 / PWD SR 2014-15**	Sqm							
	3rd Main		2x2	144.00		0.40	230.40		
			1x2	37.00		0.40	29.60		
	Cross Road		2x2	115.00		0.40	184.00		
	Maramma Temple Road		2x2	95.00		0.40	152.00		
			2	43.00		0.40	34.40		
	Total Qty						**630.40**	**TP**	
	Qty upto 125%						**325.00**	993.00	**322725.00**
	Qty Above 125%						**305.40**	984.22	**300581.00**
	Basic Rate	943.00							
	Area Weightage @ 8%	75.44							
		1018.44							
	Tender Premium @ -3.36%	34.22							
	Total	**984.22**							
6	KSRB 4-1.6 : Providing and laying in position plain cement concrete of **mix 1:2:4 with cement @ 240 kgs with 20mm** and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum, machine mixed, concrete laid in layers not exceeding 15cms, thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications, specification. No. KBS 4.1,4.2. **No. 12/ Item No. 4.6/ PWD SR 2014-15**	Cum							
	Coping		2x2	144.00	0.20	0.10	11.52		
			1x2	37.00	0.20	0.10	1.48		
			2x2	115.00	0.20	0.10	9.20		
			2x2	95.00	0.20	0.10	7.60		
			2	43.00	0.20	0.10	3.44		
	Bottom		2	144.00	0.45	0.10	12.96		
			1	37.00	0.45	0.10	1.67		
			2	115.00	0.45	0.10	10.35		
							58.22	5327.00	**310111.00**

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
7	KSRB 4.2.2 : Providing and laying in position **reinforced cement concrete of design mix M20 with OPC cement @ 320 kgs, with 20mm and down size graded granite metal**, coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum with superplastisiser @ 3lts confirming to IS 9103-1999 reaffirmed-2008 machine mixed, concrete laid in layers not exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintels, retaining walls, walls (any thickness) including attached plasters, column, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc, including cost of all materials, labour, HOM of machinery, curing, complete as per specifications. Specification No. KBS 4.1,4.6, **Page No. 13 / Item No. 4.11 / PWD SR 2014-15**	Cum							
			Not Executed				0.00		
							0.00	6065.00	**0.00**
8	KSRB 4.9.2: Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 **TMT Bars FE 500 Page No. 17 / Item No. 4.46.2 / PWD SR 2014-15**	Tonne							
			Not Executed				0.00	TP	
							0.00	78351.00	**0.00**
9	KSRB 4-6.2 : Providing and removing centering, shuttering, strutting, propping etc., and **removal of form work for flat surface such as suspended floors, roofs, landings, balconies and likes, thickness upto 200 mm** including cost of all materials, labour complete as per specifications. Specification NO KBS 4.6.2 **Page No. 15 / Item No. 4.18 / PWD SR 2014-15**	Sqm							
			Not Executed				0.00	TP	
							0.00	314.00	**0.00**
10	KSRRB 300-47: scarifying kankar/gravel/metal crust upto 150mm thick with pick axes and disposal of stuff within a lead of 100 meters including cost of all labour charges complete as per specifications MORTH chapter 3, **No. 143 / Item No. 19.53 / PWD SR 2014-15**	Sqm							
			1	181.00	4.80		868.80	TP	
							868.80	22.00	**19114.00**

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
11	Providing, laying, spreading and compacting graded stone aggregate to **wet mix macadam** specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications **Page No. 154 / Item No. 20.18 PWD SR - 2014-15**	Cum							
	3rd Main		1	181.00	5.00	0.20	181.00		
	For Pot Holes		1	18.40	6.00	0.20	22.08		
			1	2.00	1.80	0.20	0.72		
			1	4.60	1.00	0.20	0.92		
			1	5.30	2.40	0.20	2.54		
			1	11.60	4.60	0.20	10.67		
							217.94	1400.00	**305110.00**
12	Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WBM, WMM including cleaning of road surface and spraying primer at the rate of 0.60 Kg / sqm using mechnical means complete as per specifications. MORTH specification NO. 502, **Page No. 157 / Item No. 21.6 / PWD SR 2014-15**	Sqm							
	3rd Main		1	181.00	3.00		543.00		
	For Pot Holes		1	18.40	6.00		110.40		
			1	2.00	1.80		3.60		
			1	4.60	1.00		4.60		
			1	5.30	2.40		12.72		
			1	11.60	4.60		53.36		
							727.68	31.00	**22558.00**
13	KSRRB 500-11: Providing and laying **bituminous macadam** on prepared surface with crushed coarse aggregates as per design mix formula for base / binding course including loading of aggregates with F.E. loader, hot mixing of stone aggregates and bitumen in hot mix plant 40 tonne capacity, transporting the mixed material in tipper to paver and laying mixed materials with paver finisher to the required level and grade, rolling by power roller to achieve the desired density, 50 / 75mm compacted thickness with 3.3% bitumen but excluding cost of primer / tack cost with lead upto 1km including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH chapter 5, **using 100/12 TPH capacity h.M.P with sensor paver gr-II (50 mm to 75 mm) with 3.3 % VG-30 Bitumen, Page No. 158 / Item No. 21.11.2/ PWD SR 2014-15**	Cum							
			1	181.00	3.00	0.050	27.15	TP	
							27.15	6716.00	**182339.00**

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
14	KSRRB M500-19: Providing and laying **bituminous concrete** crushed aggregates of specified grading, premixed with bituminous binder at 5.4 to 5.6% of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grad, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve, the desired compaction as per MORTH specification clauses No. 500.9 complete in all respects complete as pr specifications. **Using 100/120 TPH capacity H.M.P with sensor paver Gr-II (30 mm to 45 mm) with 6 % CRMB 55 Page No. 151 / Item No. 21.23 / PWD SR 2014-15**	Cum							
			Qty Not Executed					9500.00	
15	Lead for Disposal of Debris shall be payable at carriage rates by Mechanical means inlcuding loading and unloading. From 0.00 to 2.00 Km (Page No.123)	Cum							
			Vide Item No. 1				**182.95**	83.30	**15240.00**
	EIRL								
16	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar(1:6) including fixing curing etc, complete10.0 cms thick **Page No. 25 / Item No. 5.31.2 / PWD SR 2015-16**	Sqm							
	For Covering Slab		1	43.00		1.35	58.05		
							58.05	768.17	**44592.00**
	Basic Rate	736.00							
	Area Weightage @ 8%	58.88							
		794.88							
	Tender Premium @ -3.36%	26.71							
	Total	**768.17**							
17	**Providing precast slab of 100 mm thick** including cost of all materials, labour, curing,transportation,loading and unloading, etc., complete as per the direction of engineer in charge- Data rate	Sqm							
	3rd Main R/S		1	100.00		0.90	90.00		
	L/S		1	124.00		0.90	111.60		
	Indian Express LO Main Road R/S		1	95.00		0.90	85.50		
	L/S		1	80.00		0.90	72.00		
	Maramma temple Road R/S		1	63.00		0.90	56.70		
	L/S		1	54.00		0.90	48.60		
				516.00			**464.40**	1700.86	**789881.00**
	Basic Rate	1760.00							
	Tender Premium @ -3.36%	59.14							
		1700.86							
18	Removing and resetting of kerb stones, **No. 258 / Item No. 37.57 PWD SR 2015-16**	M							
			1	130.00			130.00		

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
							130.00	61.58	**8005.00**
	Basic Rate	59.00							
	Area Weightage @8%	4.72							
	Total	**63.72**							
	Tender Premium @ -3.36%	2.14							
	Total	**61.58**							
19	KSRB 15.19.1 : Providing and applying ready mix priming coat over concrete / masonry / asbestos cement sheet / plastered surfaces including preparing the surface after throughtly cleaning of oil, grease, dirt and other foreign matter, and sand papering including cost of materials, labour, complete as per specifications. **Page No. 121 / Item No. 15.80 / PWD SR 2015-16**	Sqm							
			1	130.00		0.35	45.50		
							45.50	26.09	**1187.00**
	Basic Rate	25.00							
	Area Weightage @ 8%	2.00							
	Total	**27.00**							
	Tender Premium @ -3.36%	0.91							
	Total	**26.09**							
20	KSRRB 500-7: Providing and applying **tack coat** using 80/100 grade bitumen (VG10) on the prepared black topped surfaces at 2.5kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding clearing of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH chapter 5, **No. 160 / Item No. 21.7/ PWD SR 2015-16**	Sqm							
	3rd Main		1	181.00	5.00		905.00		
							905.00	11.48	**10390.00**
	Basic Rate	11.00							
	Area Weightage @ 8%	0.88							
		11.88							
	Tender Premium @ -3.36%	0.40							
	Total	**11.48**							
21	KSRRB M500-19: providing and laying **bituminous concrete** 40mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem roller to achieve the desire compaction as per MORTH specification clause No. 500.9 complete In all respects as per specifications. MORTH specification NO. 509, **using 40/60 TPH capacity H.M.P with Mechanical paver Gr-II (30 to 45 mm) with 6% VG-30 Bitumen, No. 165 / Item No. 21.22.6/ PWD SR 2015-16**	Cum							
	3rd Main		1	181.00	5.00	0.040	36.20		

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	For Pot Holes		1	18.40	6.00	0.040	4.42		
			1	2.00	1.80	0.040	0.14		
			1	4.60	1.00	0.040	0.18		
			1	5.30	2.40	0.040	0.51		
			1	11.60	4.60	0.040	2.13		
							43.59	7440.62	**324316.00**
	Basic Rate	7129.00							
	Area Weightage @ 8%	570.32							
		7699.32							
	Tender Premium @ -3.36%	258.70							
	Total	**7440.62**							
								Total	**2869597.00**
Rupees Twenty Eight Lakh(s) Sixty Nine Thousand Five Hundred Ninety Seven Only									

CERTIFICATE:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per PWD SR of 2014-15, 2015-16 and Data Rate +/- Tender Premium.
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

Junior Engineer
Ward No. 09

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidayranyapura Sub Division

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division
29/8/16

"Technical Sanction Accorded For 28.69 lakhRs, Head of A/C P3089 Modified Estimate CER NO : 1/1 Dt: 29/8/16 Sanctioned"
Chief Engineer
Yelahanka Zone
Bruhath Bangalore Mahanagara
29.08.16 Bangalore
CE (YNK)
TA